

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 23465/109		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US 00/22619	CT/US 00/22619 18/08/2000 19/08/1999			
Applicant UNIVERSITY OF SOUTHERN CA	LIFORNIA et al.	·		
according to Article 18. A copy is being tr		hority and is transmitted to the applicant		
	of a total of4sheets.  via copy of each prior art document cited in this	report.		
	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the		
the international search ( Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this		
b. With regard to any <b>nucleotide a</b> rwas carried out on the basis of the contained in the internati	e sequence listing : onal application in written form.	nternational application, the international search		
<u> </u>	ernational application in computer readable for	m.		
	o this Authority in written form.			
the statement that the su	o this Authority in computer readble form. bsequently furnished written sequence listing of	does not go beyond the disclosure in the		
international application	as filed has been furnished.	is identical to the written sequence listing has been		
Z. X Certain claims were for 3. Unity of invention is lace	und unsearchable (See Box I). cking (see Box II).			
4. With regard to the title,	•			
	ubmitted by the applicant.			
the text has been establi	shed by this Authority to read as follows:			
5. With regard to the abstract,	· •	•		
CO23	ubmitted by the applicant.			
the text has been establi	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.		
6. The figure of the <b>drawings</b> to be pub	olished with the abstract is Figure No.	1		
X as suggested by the app	licant.	None of the figures.		
because the applicant fa	iled to suggest a figure.			
because this figure bette	r characterizes the invention.			

International Application No US 00/22619

Relevant to claim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/87 C12N15/86 ·· A61K47/48 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Category °

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

EPO-Internal, WPI Data, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

X	WO 96 21036 A (VIAGENE INC) 11 July 1996 (1996-07-11)  the whole document, in particular page 5 line 28 to page 6 line 5, page 12 and page 27 line 30 to page 28 line 24		1-7,9, 10,16, 18,19
		-/	
X Furti	her documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.
° Special ca  'A' docume consic  'E' earlier or filing or which citatio  'O' docume other of the results of the	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	<ul> <li>"T" later document published after the interpretary of priority date and not in conflict with cited to understand the principle or the invention.</li> <li>"X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious in the art.</li> <li>"&amp;" document member of the same patent</li> </ul>	the application but early underlying the claimed invention to be considered to bocument is taken alone claimed invention each of the considered to be considered invention each of the considered to a person skilled
	actual completion of the international search 6 January 2001	Date of mailing of the international se	arch report
Name and r	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Julia, P	

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International Application No PSS 00/22619

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	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	. Relevant to claim No.
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X	FASBENDER A ET AL: "COMPLEXES OF ADENOVIRUS WITH POLYCATIONIC POLYMERS AND CATIONIC LIPIDS INCREASE THE EFFICIENCY OF GENE TRANSFER IN VITRO AND IN VIVO" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 272, no. 10, 7 March 1997 (1997-03-07), pages 6479-6489, XP002060642 ISSN: 0021-9258 cited in the application the whole document, in particular page 6488 left column	1-3,7, 18,19,21
X	WO 98 44938 A (ANDERSON W FRENCH ;GORDON ERLINDA MARIA (US); HALL FREDERICK L (US) 15 October 1998 (1998-10-15) the whole document, in particular paragrapah bridging pages 17 to 18 and figure 1B	1,2,4,8, 9,18,19
A	US 4 948 590 A (HAWROT EDWARD ET AL) 14 August 1990 (1990-08-14) the whole document, in particular column 6, lines 23-26 and column 18, lines 1-2	1-3,8,18
Α	US 5 631 018 A (ZALIPSKY SAMUEL ET AL) 20 May 1997 (1997-05-20) cited in the application the whole document, in particular column 10 lines 20-32	1,3,4,7, 16,18, 19,21-23
Α	WO 97 40854 A (ANTIVIRALS INC) 6 November 1997 (1997-11-06) the whole text, in particular pages 24-25, 27 and figures 3, 12	1,3-7, 10,12, 17,19-23
Α	JANUSZESKI M M ET AL: "Functional analysis of the cytoplasmic tail of Moloney murine leukemia virus envelope protein" JOURNAL OF VIROLOGY, US, THE AMERICAN SOCIETY FOR MICROBIOLOGY, vol. 71, no. 5, May 1997 (1997-05), pages 3613-3619, XP002130560 ISSN: 0022-538X the whole document	5,6,10, 11,13-15
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P	IS	00/22619		
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